Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
CD40	GeneSeq Accession Y33499	W09945944	Activities associated with apoptosis, NF-kB activation, and co-stimulation of immune cells such as T and B cells.	Apoptosis activity, NF-kB activation, and B and T cell costimulation can be determined using assays known in the art: Moore et al., 1999, Science, 285(5425):260-3; Song HY etal., 1997 Proc Natl Acad Sci U S A 94(18):9792-6; Epsevik and Nissen-Meyer, 1986, J. Immunol. Methods.	Soluble CD40 polypeptides may be useful for inhibiting apoptosis, NF-kB activation, and/or co-stimulation of immune cells such as B and T cells.
EDAR	Genbank Accession AAD50077		Activities associated with apoptosis, NF-kB activation, and co-stimulation of immune cells such as T and B cells.	Apoptosis activity, NF-kB activation, and B and T cell costimulation can be determined using assays known in the art: Moore et al., 1999, Science, 285(5425):260-3; Song HY etal., 1997 Proc Natl Acad Sci U S A 94(18):9792-6; Epsevik and Nissen-Meyer, 1986, J. Immunol. Methods.	Immune Disorders, Lymphomas, X-linked hypohidrotic ectodermal dysplasia
OX40; ACT-4	GeneSeq Accession R74737	W09512673	Activities associated with apoptosis, NF-kB activation, and co-stimulation of immune cells such as T and B cells.	Apoptosis activity, NF-kB activation, and B and T cell costimulation can be determined using assays known in the art: Moore et al., 1999, Science, 285(5425):260-3; Song HY etal., 1997 Proc Natl Acad Sci U S A 94(18):9792-6; Epsevik and Nissen-Meyer, 1986, J. Immunol. Methods.	Immune Disorders, Lymphomas, T cell disorders

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
TACI	GeneSeq Accession W75783	WO9839361	Activities associated with apoptosis, NF-kB activation, and co-stimulation of immune cells such as T and B cells.	Apoptosis activity, NF-kB activation, and B and T cell costimulation can be determined using assays known in the art: Moore et al., 1999, Science, 285(5425):260-3; Song HY etal., 1997 Proc Natl Acad Sci U S A 94(18):9792-6; Epsevik and Nissen-Meyer, 1986, J. Immunol. Methods.	Soluble TACI receptor polypeptides may be useful for inhibiting apoptosis, NF-kB activation, and/or costimulation of immune cells such as B and T cells.
TNF-R	GeneSeq Accession R10986	AU9058976	Activities associated with apoptosis, NF-kB activation, and co-stimulation of immune cells such as T and B cells.	Apoptosis activity, NF-kB activation, and B and T cell costimulation can be determined using assays known in the art: Moore et al., 1999, Science, 285(5425):260-3; Song HY etal., 1997 Proc Natl Acad Sci U S A 94(18):9792-6; Epsevik and Nissen-Meyer, 1986, J. Immunol. Methods.	Soluble TNF-R receptor polypeptides may be useful for inhibiting apoptosis, NF-kB activation, and/or costimulation of immune cells such as B and T cells.
TNF-RII; TNF p75 Receptor; Death Receptor	GeneSeq Accession R11141	EP418014	Activities associated with apoptosis, NF-kB activation, and co-stimulation of immune cells such as T and B cells.	Activities associated with Apoptosis activity, NF-kB apoptosis, NF-kB activation, and co-stimulation of immune stimulation can be determined using assays known in the art: Moore et al., 1999, Science, 285(5425):260-3; Song HY etal., 1997 Proc Natl Acad Sci U S A 94(18):9792-6; Epsevik and Nissen-Meyer, 1986, J. Immunol. Methods.	Soluble TNFR-II receptor polypeptides may be useful for inhibiting apoptosis, NF-kB activation, and/or costimulation of immune cells such as B and T cells.

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
hAPO-4; TROY	GeneSeq Accession W93581	WO9911791	Activities associated with apoptosis, NF-kB activation, and co-stimulation of immune cells such as T and B cells.	Activities associated with Apoptosis activity, NF-kB apoptosis, NF-kB activation, activation, and B and T cell coand co-stimulation of immune stimulation can be determined using assays known in the art: Moore et al., 1999, Science, 285(5425):260-3; Song HY etal., 1997 Proc Natl Acad Sci U S A 94(18):9792-6; Epsevik and Nissen-Meyer, 1986, J. Immunol. Methods.	Immune Disorders, Cancers
TNF-alpha precursor	GeneSeq Accession P60074	EP205038	Activities associated with apoptosis, NF-kB activation, and co-stimulation of immune cells such as T and B cells.	and T cell codetermined using he art: Moore et 285(5425):260-3; 7 Proc Natl Acad:9792-6; Epsevik yer, 1986, J.	NF-kB inflammatory disorders, cell co- immunologic disorders, cancer doore et 1:260-3; atl Acad Epsevik 86, J.
Human TNF- alpha	GeneSeq Accession R62463	EP619372	Activities associated with apoptosis, NF-kB activation, and co-stimulation of immune cells such as T and B cells.	and T cell codetermined using he art: Moore et 285(5425):260-3; 7 Proc Natl Acad:9792-6; Epsevik yer, 1986, J.	inflammatory disorders, immunologic disorders, cancer

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Human TNF- alpha	GeneSeq Accession R42679	EP563714	Activities associated with apoptosis, NF-kB activation, and co-stimulation of immune cells such as T and B cells.	Apoptosis activity, NF-kB activation, and B and T cell costimulation can be determined using assays known in the art: Moore et al., 1999, Science, 285(5425):260-3; Song HY etal., 1997 Proc Natl Acad	inflammatory disorders, immunologic disorders, cancer
Human TNF-	GeneSeq	WO0064479	Activities associated with		inflammatory disorders,
beta (LT-alpha)	Accession B37799		apoptosis, NF-kB activation, and co-stimulation of immune cells such as T and B cells.		immunologic disorders, cancer
				Sci U S A 94(18):9792-6; Epsevik and Nissen-Meyer, 1986, J. Immunol. Methods.	
LT-alpha	GeneSeq Accession P70107	EP250000	Activities associated with apoptosis, NF-kB activation, and co-stimulation of immune cells such as T and B cells.	with Apoptosis activity, NF-kB on, activation, and B and T cell conune stimulation can be determined using assays known in the art: Moore et al., 1999, Science, 285(5425):260-3;	inflammatory disorders, immunologic disorders, cancer
				Song HY etal., 1997 Proc Natl Acad Sci U S A 94(18):9792-6; Epsevik and Nissen-Meyer, 1986, J. Immunol. Methods.	

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Protein X	Identifier				
LT-beta	GeneSeq	WO9413808	Activities associated with	Apoptosis activity, NF-kB	inflammatory disorders,
	Accession R56869		apoptosis, NF-kB activation,	activation, and B and T cell co-	immunologic disorc
			nmune	stimulation can be determined using	
			cells such as T and B cells.	assays known in the art: Moore et	
				al., 1999, Science, 285(5425):260-3;	
				Song HY etal., 1997 Proc Natl Acad	
				Sci U S A 94(18):9792-6; Epsevik	
				and Nissen-Meyer, 1986, J.	
				Immunol. Methods.	
OPGL	GeneSeq	WO9846751	Activities associated with	with Apoptosis activity, NF-kB	inflammatory disorders,
-	Accession		apoptosis, NF-kB activation,	activation, and B and T cell co-	immunologic disorders,
	W83195		and co-stimulation of immune	stimulation can be determined using	cancer, loss of bone mass,
			cells such as T and B cells.	assays known in the art: Moore et	
	÷			al., 1999, Science, 285(5425):260-3;	
			-	Song HY etal., 1997 Proc Natl Acad	
		-		Sci U S A 94(18):9792-6; Epsevik	
	-			and Nissen-Meyer, 1986, J.	
				Immunol. Methods.	
FasL	GeneSed	WO9903999		Apoptosis activity, NF-kB	inflammatory disorders,
	Accession		apoptosis, NF-kB activation,	activation, and B and T cell co-	immunologic disorders, cancer
	W98071		and co-stimulation of immune	stimulation can be determined using	
			cells such as T and B cells.	assays known in the art: Moore et	
				al., 1999, Science, 285(5425):260-3;	
				Song HY etal., 1997 Proc Natl Acad	
				Sci U S A 94(18):9792-6; Epsevik	
				and Nissen-Meyer, 1986, J.	
				Immunol. Methods.	

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
FasL	GeneSeq Accession W95041	WO9903998	Activities associated with apoptosis, NF-kB activation, and co-stimulation of immune cells such as T and B cells.	Apoptosis activity, NF-kB activation, and B and T cell costimulation can be determined using assays known in the art: Moore et al., 1999, Science, 285(5425):260-3; Song HY etal., 1997 Proc Natl Acad Sci U S A 94(18):9792-6; Epsevik and Nissen-Meyer, 1986, J. Immunol. Methods.	inflammatory disorders, immunologic disorders, cancer
CD27L	GeneSeq Accession R50121	W09405691	Activities associated with Apoptosis apoptosis, NF-kB activation, activation, and co-stimulation of immune stimulation cells such as T and B cells. Song HY et Sci U S A and Nisse Immunol. M Immunol. M	activity, NF-kB and B and T cell cocan be determined using vn in the art: Moore et ience, 285(5425):260-3; al., 1997 Proc Natl Acad 94(18):9792-6; Epsevik en-Meyer, 1986, J. ethods.	inflammatory disorders, immunologic disorders, cancer
CD30 ligand	GeneSeq Accession R45007	W09324135	Activities associated with apoptosis, NF-kB activation, and co-stimulation of immune cells such as T and B cells.	Apoptosis activity, NF-kB activation, and B and T cell costimulation can be determined using assays known in the art: Moore et al., 1999, Science, 285(5425):260-3; Song HY etal., 1997 Proc Natl Acad Sci U S A 94(18):9792-6; Epsevik and Nissen-Meyer, 1986, J. Immunol. Methods.	inflammatory disorders, immunologic disorders, cancer

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
CDAÓI	Gono Cog	W/00520025	4.1.1	A 20 10 10 10 10 10 10 10 10 10 10 10 10 10	
	Accession R85486		NF-kB activation.	activation, and B and T	immunologic disorders, cancer
			<u>a</u>	stimulation can be determined using	
			cells such as T and B cells.	assays known in the art: Moore et	
		•		al., 1999, Science, 285(5425):260-3;	
				Song HY etal., 1997 Proc Natl Acad	
				Sci U S A 94(18):9792-6; Epsevik	
				and Nissen-Meyer, 1986, J.	
				Immunol. Methods.	
4-1BB ligand	GeneSeq	US5674704	Activities associated with	with Apoptosis activity, NF-kB	inflammatory disorders,
	Accession		ation,	and B and T	immunologic disorders, cancer
	W26657		and co-stimulation of immune	stimulation can be determined using	
,		•	cells such as T and B cells.	assays known in the art: Moore et	
				al., 1999, Science, 285(5425):260-3;	
				Song HY etal., 1997 Proc Natl Acad	
				Sci U S A 94(18):9792-6; Epsevik	
				and Nissen-Meyer, 1986, J.	
				Immunol. Methods.	
FAS Ligand	GeneSeq	WO0058465		with Apoptosis activity, NF-kB Soluble DcR3 polypeptides	Soluble DcR3 polypeptides
Inhibitory	Accession B19335		apoptosis, NF-kB activation,	activation, and B and T cell co-	may be useful for inhibiting
Protein (DcR3)			and co-stimulation of immune		apoptosis, NF-kB activation,
			cells such as T and B cells.	assays known in the art: Moore et	and/or co-stimulation of
				al., 1999, Science, 285(5425):260-3;	immune cells such as B and T
				Song HY etal., 1997 Proc Natl Acad	cells.
		•		Sci U S A 94(18):9792-6; Epsevik	
			-	and Nissen-Meyer, 1986, J.	
				Immunol. Methods.	

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
OX40L	GeneSeq	W09521915	Activities associated with	Apoptosis activity, NF-kB	inflammatory disorders.
	Accession R79903		NF-kB activati	activation, and B and T cell co-	Orc
			and co-stimulation of immune	stimulation can be determined using	
			cells such as T and B cells.	assays known in the art: Moore et	
				al., 1999, Science, 285(5425):260-3;	
				Song HY etal., 1997 Proc Natl Acad	
				Sci U S A 94(18):9792-6; Epsevik	
				and Nissen-Meyer, 1986, J.	
				Immunol. Methods.	
Protease	GeneSeq	WO9106561	Peptides that inhibit the	HIV protease activities are known in	HIV, inflammatory disorders,
inhibitor	Accessions		function/binding of HIV	the art: HIV protease assays:	immunologic disorders,
peptides	R12435, R12436,			EP0387231. One can modify the	cancer, viral infections
	R12437, R12438,			assay to look for inhibition using	
	R12439, R12440,			any of the disclosed protease	
	and R1244			inhibitor polypeptides.	
Retroviral	GeneSeq	EP387231	Peptides that inhibit the	HIV protease activities are known in	HIV, inflammatory disorders,
protease	Accessions		function/binding of HIV	the art: HIV protease assays:	immunologic disorders,
inhibitors	R06660, R06661,			EP0387231. One can modify the	cancer, viral infections
_	R06662, R06663,			assay to look for inhibition using	
	R06664, R06665,			any of the disclosed protease	
	R06666, R06667,			inhibitor polypeptides.	
	R06668, R06669,				
	R06670, R06671,				
	R06672, R06673,				
•	R06674, R06675,				
	and R06676				

Preferred Indication Y	HIV, inflammatory disorders, immunologic disorders, cancer, viral infections	
Exemplary Activity Assay	HIV protease activities are known in the art: HIV protease assays: EP0387231. One can modify the assay to look for inhibition using any of the disclosed protease inhibitor polypeptides.	
Biological Activity	Peptides that inhibit the function/binding of HIV	
PCT/Patent Number	W09301828	
Exemplary Identifier	GeneSeq Accessions R59293, R59294, R59295, R59294, R59295, R59296, , R59297, R59300, R59301, R59302, R59301, R59302, R59301, R59302, R59301, R59304, R59311, R59310, R59311, R59312, R59311, R59314, R59313, R59316, R59313, R59316, R59313, R59326, R59331, R59326, R59331, R59326, R59331, R59326, R59333, R59326, R59333, R59326, R59333, R59336, R59334, R59336, R59349, R59346, R59349, R59346, R59346, R59346, R59346,	and R59350
Therapeutic Protein X	HIV protease inhibiting peptides	

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
HIV-1 protease inhibitors	GeneSeq Accessions R86326, R86327, R86328, R86329, R86330, R86331, R86334, R86333, R86334, R86334, R86336, R86334, R86336, R86334, R86336, R86343, R86342, R86343, R86344, R86343, R86342, R86343, R86342, R86343, R86342, R86343, R86346, R86343, R86356, R86351, R86356, R86351, R86356, R86351, R86356, R86351, R86356, R86357, R86360, R86361, R86362, R86363, R86364, R86363, R86366, R86367, R86368, R86369, R86368, R86369, R86368, R86360, R86368, R86369,	DE4412174	Peptides that inhibit the function/binding of HIV	HIV protease activities are known in the art: HIV protease assays: EP0387231. One can modify the assay to look for inhibition using any of the disclosed protease inhibitor polypeptides.	HIV, inflammatory disorders, immunologic disorders, cancer, viral infections
HIV Inhibitor Peptide	GeneSeq Accession Y89687	WO9959615	Peptides that inhibit the function/binding of HIV	HIV protease activities are known in the art: HIV protease assays: EP0387231. One can modify the assay to look for inhibition using any of the disclosed protease inhibitor polypeptides.	HIV, inflammatory disorders, immunologic disorders, cancer, viral infections

WO9948513 Peptides that inhibit the
Peptides that inhibit the function/binding of HIV
WO9509232 Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, angiogenesis, and leukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-proteincoupled receptors. Over 40 human chemokines have been described, which bind to ~17 receptors thus far identified.

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Human	GeneSeq	WO9509232	Chemokines are a family of	Chemokine activities can be	Immune disorders, particularly
monocyte	Accession R73914		related small, secreted proteins	determined using assays known in	useful for treating bacterial
chemoattractant			involved in biological processes	the art: Methods in Molecular	and/or viral menigitis
factor hMCP-1			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine)
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
_		•	family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
_			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by	***	
			acting on a family of seven		
			transmembrane G-protein-		
	•		coupled receptors. Over 40		
			human chemokines have been		
_			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Protein X	Identifier				
Human gro-beta	GeneSeq	WO9429341	Chemokines are a family of	Chemokine activities can be	Immune disorders,
chemokine	Accessions		related small, secreted proteins	determined using assays known in	inflammatory disorders, blood-
	R66699 and		involved in biological processes	the art: Methods in Molecular	related disorders, stem cell
	W17671		ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	transplantation, cancer
			angiogenesis, and leukocyte	Protocols, Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,	•	
			and tumor biology. The		
			chemokines exert their effects by		
-			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been	•	
-			described, which bind to ~17		
			receptors thus far identified.		

Preferred Indication Y	Immune disorders, inflammatory disorders, blood- related disorders, stem cell transplantation, cancer
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and leukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-proteincoupled receptors. Over 40 human chemokines have been described, which bind to ~17 receptors thus far identified.
PCT/Patent Number	W09429341
Exemplary Identifier	GeneSeq Accessions R66700 and W17672
Therapeutic Protein X	Human gro- gamma chemokine

Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
	WO9429341	Chemokines are a family of	Chemokine activities can be	Immune disorders,
		related small, secreted proteins	determined using assays known in	inflammatory disorders, blood-
		involved in biological processes	the art: Methods in Molecular	related disorders, stem cell
		ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	transplantation, cancer
		angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
		trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
		family are involved in a similarly	Power. © Humana Press Inc.,	
		diverse range of pathologies	Totowa, NJ	
		including inflammation, allergy,		
	4	tissue rejection, viral infection,		
		and tumor biology. The		177
		chemokines exert their effects by		
		acting on a family of seven		
		transmembrane G-protein-		
		coupled receptors. Over 40		
		human chemokines have been		
		described, which bind to ~17		
		receptors thus far identified.		

Preferred Indication Y	Immune disorders, partcularly	treatment of eosinophilia,	inflammation, allergies,	asthma, leukaemia and	Iymphoma		-											
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9632481																	
Exemplary Identifier	GeneSeq	Accession	W05186															
Therapeutic Protein X	Human	eosinophil-	expressed	chemokine	(EEC)													

Preferred Indication Y	Cancer and blood-related disorders, particularly myelosuppression
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and leukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-proteincoupled receptors. Over 40 human chemokines have been described, which bind to ~17
PCT/Patent Number	WO9613587
Exemplary Identifier	GeneSeq Accessions R92318 and R99809
Therapeutic Protein X	Chemokine-like protein PF4-414 Full-Length and Mature

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Chemokine-like	GeneSeq	WO9613587	Chemokines are a family of	Chemokine activities can be	Cancer and blood-related
protein IL-8M3	Accession R99812		related small, secreted proteins	determined using assays known in	disorders, particularly
			involved in biological processes	the art: Methods in Molecular	myelosuppression
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ; and Holmes et al	
			including inflammation, allergy,	(1991)Science 253, 1278-80.	
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

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Preferred Indication Y	Cancer and blood-related disorders, particularly myelosuppression
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ; and Holmes et al (1991) Science 253, 1278-80.
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and leukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-proteincoupled receptors. Over 40 human chemokines have been described, which bind to ~17 recentors thus far identified.
PCT/Patent Number	285E196OM
Exemplary Identifier	GeneSeq Accession R99814
Therapeutic Protein X	Human interleukin-8 (IL-8)

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Protein X	Identifier				
Chemokine-like	GeneSeq	WO9613587	Chemokines are a family of	Chemokine activities can be	Cancer and blood-related
protein IL-8M1	Accessions		related small, secreted proteins	determined using assays known in	disorders, particularly
Full-Length and	R99815 and		involved in biological processes	the art: Methods in Molecular	myelosuppression
Mature	R99803		ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	4
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	•
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ; and Holmes et al	
			including inflammation, allergy,	(1991)Science 253, 1278-80.	
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
	•		receptors thus far identified.	* !	

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Preferred Indication Y	Cancer and blood-related disorders, particularly myelosuppression
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot; T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ; and Holmes et al (1991) Science 253, 1278-80.
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and leukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-proteincoupled receptors. Over 40 human chemokines have been described, which bind to ~17 receptors thus far identified.
PCT/Patent Number	WO9613587
Éxemplary Identifier	GeneSeq Accessions R99816 and R99805
Therapeutic Protein X	Chemokine-like protein IL-8M8 Full-Length and Mature

PCT/Patent Number Biological Activity
Chemokines are a family of
related small, secreted proteins
involved in biological processes
ranging from hematopoiesis,
angiogenesis, and leukocyte
trafficking. Members of this
family are involved in a similarly
diverse range of pathologies
including inflammation, allergy,
tissue rejection, viral infection,
and tumor biology. The
chemokines exert their effects by
acting on a family of seven
transmembrane G-protein-
coupled receptors. Over 40
human chemokines have been
described, which bind to ~17
receptors thus far identified.

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
r rotein A	rachinier				
Chemokine-like	GeneSeq	WO9613587	Chemokines are a family of	Chemokine activities can be	Cancer and blood-related
protein IL-	Accessions		related small, secreted proteins	determined using assays known in	disorders, particularly
8M10 Full-	R99818 and		involved in biological processes	the art: Methods in Molecular	myelosuppression
Length and	R99804		ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
Mature			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly		
			diverse range of pathologies	Totowa, NJ; and Holmes et al	
			including inflammation, allergy,	(1991)Science 253, 1278-80.	
_			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

			•								
Preferred Indication Y	Cancer and blood-related disorders, particularly	myelosuppression									
Exemplary Activity Assay	Chemokine activities can be determined using assays known in	the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc.,	Totowa, NJ							
Biological Activity	Chemokines are a family of related small, secreted proteins	involved in biological processes ranging from hematopoiesis, angiogenesis, and leukocyte	trafficking. Members of this family are involved in a similarly	diverse range of pathologies including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The chemokines exert their effects by	acting on a family of seven	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9613587										
Exemplary Identifier	GeneSeq Accessions	K99819 and R99807									
Therapeutic Protein X	Chemokine-like protein PF4-M2	Full-Length and Mature									

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Chemokine-like	GeneSeq	WO9613587	Chemokines are a family of	Chemokine activities can be	Cancer and blood-related
protein PF4-426	Accessions		related small, secreted proteins	determined using assays known in	disorders, particularly
Full-Length and	R99822 and		involved in biological processes	the art: Methods in Molecular	myelosuppression
Mature	R99811		ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
_			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y	_
Protein X	Identifier					_
Human foetal	GeneSeq	WO9622374	Chemokines are a family of	Chemokine activities can be	Immune disorders	
spleen	Accession R98499		related small, secreted proteins	determined using assays known in		
expressed	44.2.		involved in biological processes	the art: Methods in Molecular		
chemokine,			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	-	
FSEC			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.		
	~		trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	•	_
	-		family are involved in a similarly	Power. © Humana Press Inc.,		
			diverse range of pathologies	Totowa, NJ		_
			including inflammation, allergy,			
	-		tissue rejection, viral infection,			
			and tumor biology. The			
			chemokines exert their effects by			
			acting on a family of seven			
			transmembrane G-protein-			_
			coupled receptors. Over 40	-		
			human chemokines have been			
			described, which bind to ~17			_
			receptors thus far identified.			

say Preferred Indication Y	Inflammation of the liver	wnin	•	mokine		I C.A.										-	
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ						٠			
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	
PCT/Patent Number	WO9616979																
Exemplary Identifier	GeneSeq	Accession R95689													-		
Therapeutic Protein X	Liver expressed	chemokine-1	(LVEC-1)														

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Liver expressed	GeneSeq	WO9616979	Chemokines are a family of	Chemokine activities can be	Inflammation of the liver
chemokine-2	Accession R95690		related small, secreted proteins	determined using assays known in	
(LVEC-2)		***	involved in biological processes	the art: Methods in Molecular	
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
	-		angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
- A A-			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
<u> </u>			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Protein X	Identifier				
Pituitary	GeneSeq	WO9616979	Chemokines are a family of	Chemokine activities can be	Inflammation, particularly of
expressed	Accession R95691		related small, secreted proteins	determined using assays known in	the liver
chemokine			involved in biological processes	the art: Methods in Molecular	
(PGEC)			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols, Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
<u> </u>	•		and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven	•	
311.			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
!			receptors thus far identified.		· · · · · · · · · · · · · · · · · · ·

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Protein X	Identifier				
Adenoid-	GeneSeq	WO9617868	Chemokines are a family of	Chemokine activities can be	Inflammation, angiogenesis,
expressed	Accession R97664		related small, secreted proteins	determined using assays known in	tumorigenesis,
chemokine			involved in biological processes	the art: Methods in Molecular	musculoskeletal disorders
(ADEC)			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
	·		including inflammation, allergy,		
	•••••		tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by	•	
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
<u></u>			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Preferred Indication Y	Immune disorders, cell migration, proliferation, and differentiation disorders
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and leukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-coupled receptors. Over 40 human chemokines have been described, which bind to ~17 receptors thus far identified.
PCT/Patent Number	WO9741230
Exemplary Identifier	GeneSeq Accession W38170
Therapeutic Protein X	chemokine CC-2

							-	~											-
Preferred Indication Y		Immune disorders, cell	migration, proliferation, and	differentiation disorders															
Exemplary Activity Assay		Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ								•		
Biological Activity		Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number		WO9741230																	
Exemplary	Identifier	GeneSeq	Accession	W38171															
Therapeutic	Protein X	Human	chemokine	HCC-1															

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Human	GeneSeq	WO9741230	Chemokines are a family of	Chemokine activities can be	Immune disorders, cell
chemokine CC-	Accession		related small, secreted proteins	determined using assays known in	migration, proliferation, and
co	W38172		involved in biological processes	the art: Methods in Molecular	differentiation disorders
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
-			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by	•	
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		••

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Protein A	Identifier				
Novel beta-	GeneSeq	WO9739126	Chemokines are a family of	Chemokine activities can be	Immune disorders, vascular
chemokine	Accession		related small, secreted proteins	determined using assays known in	disorders, cancer
designated	W27271		involved in biological processes	the art: Methods in Molecular	
PTEC			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Protein X	Identifier				
Human CX3C	GeneSeq	WO9727299	Chemokines are a family of	Chemokine activities can be	Immune disorders,
111 amino acid	Accession		related small, secreted proteins	determined using assays known in	inflammatory diseases,
chemokine	W23344		involved in biological processes	the art: Methods in Molecular	abnormal proliferation,
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	regeneration, degeneration,
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	and atrophy
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power, © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
	•		transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
•	,		described, which bind to ~17		
			receptors thus far identified.		

Preferred Indication Y	Abnormal physiology and	development disorders, can	also be used as an anti-viral	agent														
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9721812			***************************************														
Exemplary Identifier	GeneSeq	Accession	W25942															
Therapeutic Protein X	Human CCF18	chemokine																

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Human beta-	GeneSeq	WÒ9725427	Chemokines are a family of	Chemokine activities can be	Chemotaxis, blood-related
chemokine	Accession		related small, secreted proteins	determined using assays known in	disorders, viral infection, HIV,
H1305 (MCP-2)	W26655		involved in biological processes	the art: Methods in Molecular	wound healing, cancer
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Protein X	Identifier				
Human	GeneSeq	WO9712914	Chemokines are a family of	Chemokine activities can be	Inflammatory and immune
eosinocyte CC	Accession		related small, secreted proteins	determined using assays known in	disorders
type chemokine	W14990		involved in biological processes	the art: Methods in Molecular	
eotaxin			ranging from hematopolesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		-
			coupled receptors, Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic Protein X	Éxemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Human thymus and activation regulated cytokine (TARC)	GeneSeq Accession W14917		Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and in biological processes rangiogenesis, and leukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-coupled receptors. Over 40 human chemokines have been described, which bind to ~17 receptors thus far identified	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ	disorders

Preferred Indication Y	Cancer, wound healing, immune disorders
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and leukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-coupled receptors. Over 40 human chemokines have been described, which bind to ~17 receptors thus far identified.
PCT/Patent Number	W09712041
Exemplary Identifier	GeneSeq Accession W16315
Therapeutic Protein X	chemokine beta- 8 short forms

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Frotein X	Identifier				
Macrophage	GeneSeq	WO9640923	Chemokines are a family of	Chemokine activities can be	Inflammatory diseases, wound
derived	Accession		related small, secreted proteins	determined using assays known in	healing, angiogenesis
chemokine,	W20058		involved in biological processes	the art: Methods in Molecular	
MDC			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
		•	diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
	44		acting on a family of seven		
			transmembrane G-protein-		
	-		coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Preferred Indication Y	Inflammatory and immune diseases
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and leukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-proteincoupled receptors. Over 40 human chemokines have been described, which bind to ~17 receptors thus far identified.
PCT/Patent Number	WO9844117
Exemplary Identifier	GeneSeq Accession W30565
Therapeutic Protein X	Human chemokine ZSIG-35

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Protein X	Identifier				
Primate CC	GeneSeq	WO9832858	Chemokines are a family of	Chemokine activities can be	Immune and inflammatory
chemokine	Accession		related small, secreted proteins	determined using assays known in	disorders, abnormal
"ILINCK"	06669M		involved in biological processes	the art: Methods in Molecular	proliferation, regeneration,
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	generation and atrophy
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	disorders
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Frotein X	Identifier				
Primate CXC	GeneSeq	WO9832858	Chemokines are a family of	Chemokine activities can be	Immune and inflammatory
chemokine	Accession		related small, secreted proteins	determined using assays known in	disorders, abnormal
"IBICK"	68669M		involved in biological processes	the art: Methods in Molecular	proliferation, regeneration,
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	generation and atrophy
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	disorders
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power, © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
	<u></u>		tissue rejection, viral infection,		
	· 		and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven	•	
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
	· · · · · · · · · · · · · · · · · · ·		described, which bind to ~17		
			receptors thus far identified.		

Preferred Indication Y	Immune, inflammatory, and infectious disorders, cancer
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and leukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-coupled receptors. Over 40 human chemokines have been described, which bind to ~17 receptors thus far identified.
PCT/Patent Number	WO9831809
Exemplary Identifier	GeneSeq Accession W69163
Therapeutic Protein X	Human CC-type chemokine protein designated SLC (secondary lymphoid chemokine)

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Protein X	Identifier				
Human CC	GeneSeq	WO9826071	Chemokines are a family of	Chemokine activities can be	Cancer and infectious diseases,
chemokine ELC	Accession		related small, secreted proteins	determined using assays known in	particularly herpes virus
protein	W62542		involved in biological processes	the art: Methods in Molecular	•
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
•			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Human DVic-1	GeneSeq	WO9823750	Chemokines are a family of	Chemokine activities can be	Abnormal proliferation,
C-C chemokine	Accession		related small, secreted proteins	determined using assays known in	regeneration, degeneration,
	W60649		involved in biological processes	the art: Methods in Molecular	and atrophy disorders,
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	including cancer
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Human C-C	GeneSeq	WO9823750	Chemokines are a family of	Chemokine activities can be	Immune disorders, cell
chemokine	Accession		related small, secreted proteins	determined using assays known in	proliferation disorders, cancer
DGMCC	W60650		involved in biological processes	the art: Methods in Molecular	
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
		-	coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Preferred Indication Y	Immune disorders, particularly T cell related disorders, viral infection, and inflammation, especially joint
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and leukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-coupled receptors. Over 40 human chemokines have been described, which bind to ~17
PCT/Patent Number	WO9824907
Exemplary Identifier	GeneSeq Accession W62783
Therapeutic Protein X	Human STCP-1

	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
	Identifier				
·	GeneSeq	WO9814581	Chemokines are a family of	Chemokine activities can be	Cancer and degenerative
	Accession		related small, secreted proteins	determined using assays known in	disorders
	W50887		involved in biological processes	the art: Methods in Molecular	
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
_		-	and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Human T cell	GeneSeq	US5780268	Chemokines are a family of	Chemokine activities can be	Immune, inflammatory, and
mixed	Accession		related small, secreted proteins	determined using assays known in	infectious disorders, cancer
lymphocyte	W58703		involved in biological processes	the art: Methods in Molecular	
reaction			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
expressed			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
chemokine			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
(TMEC)			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
<u> </u>			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Preferred Indication Y		Cancer and degenerative		ırs	ırs	ırs	ırs	ırs	ırs	ırs	STS	STS	St.	St.	jr.s	jr.s	St.	St:	St:
		Cancer and				nokine	nokine	nokine C.A.	nokine C.A.	nokine C.A.	nokine C.A.	nokine C.A.	nokine C.A.	nokine C.A.	nokine C.A.	nokine C.A.	nokine C.A.	nokine C.A.	nokine C.A.
Exemplary Activity Assay		Chemokine activities can be	determined using assays known in		the art: Methods in Molecular	1ethods in Molecular 2000, vol. 138: Chemokine	the art: Methods in Molecular Biology, 2000, vol. 138: Chen Protocols. Edited by: A.E.I.	the art: Methods in Molecular Biology, 2000, vol. 138: Chemokir Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A.	the art: Methods in Molecular Biology, 2000, vol. 138: Chen Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and Power. © Humana Press Inc.,	Methods in Molecular, 2000, vol. 138: Chens. Edited by: A.E.I. ot, T.N.C. Wells, and D.Humana Press Inc., NJ	lethods in Molecular 2000, vol. 138: Chen Edited by: A.E.I. t, T.N.C. Wells, and Humana Press Inc., NJ	lethods in Molecular 2000, vol. 138: Chen Edited by: A.E.I. t, T.N.C. Wells, and Humana Press Inc., NJ	lethods in Molecular 2000, vol. 138: Chen Edited by: A.E.I. t, T.N.C. Wells, and Humana Press Inc., NJ	lethods in Molecular 2000, vol. 138: Chen Edited by: A.E.I. t, T.N.C. Wells, and Humana Press Inc., NJ	lethods in Molecular 2000, vol. 138: Chen Edited by: A.E.I. t, T.N.C. Wells, and Humana Press Inc., NJ	lethods in Molecular 2000, vol. 138: Chen Edited by: A.E.I. t, T.N.C. Wells, and Humana Press Inc., NJ	lethods in Molecular 2000, vol. 138: Chen Edited by: A.E.I. t, T.N.C. Wells, and Humana Press Inc., NJ	lethods in Molecular 2000, vol. 138: Chen Edited by: A.E.I. t, T.N.C. Wells, and Humana Press Inc., NJ	lethods in Molecular 2000, vol. 138: Chen Edited by: A.E.I. t, T.N.C. Wells, and Humana Press Inc., NJ
Exem		Chemokin				Biology,	Biology, Protocol	Biology, Protocol Proudfoc	Biology, Protocole Proudfoc	Biology, Protocol Proudfoc Power. © Totowa,	Biology, Protocol Proudfoc Power. © Totowa,	Biology, Protocol Proudfoc ly Power. © Totowa,	Biology, Protocol Proudfoc ly Power. © Totowa,	Biology, Protocol Proudfoc ly Power. © Totowa,	Biology, Protocol Proudfoc ly Power. © Totowa,	Biology, Protocol Proudfoc ly Power. © Totowa,	Biology, Protocol Proudfoc ly Power. © Totowa,	Biology, Protocol Proudfoc ly Power. © Totowa,	Biology, Protocol Proudfoc ly Power. © Totowa,
Biological Activity		Chemokines are a family of	related small, secreted proteins	involved in biological processes	1	ranging from hematopoiesis,	ranging from hematopoiesis, angiogenesis, and leukocyte	ranging from hematopoiesis, angiogenesis, and leukocyte trafficking. Members of this	ranging from hematopoiesis, angiogenesis, and leukocyte trafficking. Members of this family are involved in a similarly	ranging from hematopoiesis, angiogenesis, and leukocyte trafficking. Members of this family are involved in a simila diverse range of pathologies	ranging from hematopoiesis, angiogenesis, and leukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy,	ranging from hematopoiesis, angiogenesis, and leukocyte trafficking. Members of this family are involved in a similar diverse range of pathologies including inflammation, allergy tissue rejection, viral infection,	hematopoiesis, s, and leukocyte Members of this volved in a simila e of pathologies flammation, allergion, viral infection iology. The	ranging from hematopoiesis, and ieukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by	ranging from hematopoiesis, angiogenesis, and leukocyte trafficking. Members of this family are involved in a simila diverse range of pathologies including inflammation, allerg tissue rejection, viral infection and tumor biology. The chemokines exert their effects acting on a family of seven	ranging from hematopoiesis, and ieukocyte trafficking. Members of this family are involved in a simila diverse range of pathologies including inflammation, allerg tissue rejection, viral infection and tumor biology. The chemokines exert their effects acting on a family of seven transmembrane G-protein-	ranging from hematopoiesis, and ieukocyte trafficking. Members of this family are involved in a simila diverse range of pathologies including inflammation, allerg tissue rejection, viral infection and tumor biology. The chemokines exert their effects acting on a family of seven transmembrane G-proteincoupled receptors. Over 40	ranging from hematopoiesis, angiogenesis, and leukocyte trafficking. Members of this family are involved in a simila diverse range of pathologies including inflammation, allerg tissue rejection, viral infection and tumor biology. The chemokines exert their effects acting on a family of seven transmembrane G-protein-coupled receptors. Over 40 human chemokines have been	ranging from hematopoiesis, angiogenesis, and leukocyte trafficking. Members of this family are involved in a simila diverse range of pathologies including inflammation, allergincluding inflammation, allergingure rejection, viral infection and tumor biology. The chemokines exert their effects acting on a family of seven transmembrane G-proteincoupled receptors. Over 40 human chemokines have been described, which bind to ~17
		Chemokines	related small	involved in b	•	ranging from	ranging from angiogenesis	ranging from angiogenesis trafficking. N	ranging from angiogenesis trafficking. M family are in	ranging from angiogenesis trafficking. M family are indiverse range	ranging from angiogenesis trafficking. N family are indiverse range including infl	ranging from angiogenesis trafficking. M family are indiverse range including inflitsue rejectic	ranging from hematopoi angiogenesis, and leuko trafficking. Members of family are involved in a diverse range of patholo including inflammation, tissue rejection, viral inf and tumor biology. The	ranging from angiogenesis trafficking. Maraficking. Maraficking influences range including influesue rejectic and tumor biochemokines e	angiogenesis trafficking. Marafficking. Maraficking. Marafiverse range including inflissue rejectic and tumor bis chemokines e acting on a fa	angiogenesis trafficking. Natafficking. Natafficking. Natafficking. Natafficking inflincluding inflinsue rejectic and tumor bis chemokines eacting on a fatransmembra	ranging from angiogenesis trafficking. Marafficking. Marafficking. Marafficking inflincherse range including inflinsue rejectic and tumor bic chemokines eacting on a fatransmembra coupled recep	ranging from angiogenesis trafficking. Marafficking. Marafficking. Marafficking inflincherse range including inflinsue rejectic and tumor bic chemokines eacting on a fatransmembra coupled receptuman chemoking.	ranging from angiogenesis trafficking. Natarily are indiverse range including inflitssue rejectic and tumor bis chemokines eacting on a fatransmembra coupled recephuman chemodescribed, wł
PCT/Patent Number		WO9814581																	
Exemplary	Identifier	GeneSeq	Accession	W50885															
Therapeutic	Protein X	Human 6CKine	protein			_													

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
human liver and	GeneSeq	WO9817800	Chemokines are a family of	Chemokine activities can be	Immune, inflammatory, and
·	Accession		related small, secreted proteins	determined using assays known in	infectious disorders, cancer
	W57475		involved in biological processes	the art: Methods in Molecular	
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
\		-	angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
•			including inflammation, allergy,		
_			tissue rejection, viral infection,		
			and tumor biology. The		
<u>-</u>			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
_			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
RANTES	GeneSeq	WO9744462	Chemokines are a family of	Chemokine activities can be	Infectious diseases,
peptide	Accession		related small, secreted proteins	determined using assays known in	particularly HIV
	W29538		involved in biological processes	the art: Methods in Molecular	
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-	•	
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
RANTES 8-68	GeneSeq	WO9744462	Chemokines are a family of	Chemokine activities can be	Infectious diseases,
	Accession		related small, secreted proteins	determined using assays known in	particularly HIV
	W29529		involved in biological processes	the art: Methods in Molecular	
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by	-	
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Frotein X	Identifier				
RANTES 9-68	GeneSeq	W09744462	Chemokines are a family of	Chemokine activities can be	Infectious diseases,
	Accession		related small, secreted proteins	determined using assays known in	particularly HIV
	W29528		involved in biological processes	the art: Methods in Molecular	
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
	- 12-11		described, which bind to ~17		
			receptors thus far identified.		

Preferred Indication Y	Abnormal proliferation, regeneration, degeneration or atrophy, including cancer		
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ	
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, anglogenesis, and leukocyte	frafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and turnor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-proteincoupled receptors. Over 40 human chemokines have been described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9811226		
Exemplary Identifier	GeneSeq Accession W59433		
Therapeutic Protein X	Human chemokine protein 331D5		

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Protein X	Identifier				
Human	GeneSeq	WO9811226	Chemokines are a family of	Chemokine activities can be	Abnormal proliferation,
chemokine	Accession		related small, secreted proteins	determined using assays known in	regeneration, degeneration or
protein 61164	W59430		involved in biological processes	the art: Methods in Molecular	atrophy, including cancer
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols, Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The	-	
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Protein X	Identifier				
Chemokine	GeneSeq	WO980917I	Chemokines are a family of	Chemokine activities can be	Immune, inflammatory, and
MCP-4	Accession		related small, secreted proteins	determined using assays known in	infectious diseases
	W56690		involved in biological processes	the art: Methods in Molecular	
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
	-		trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
·			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		•
		,	transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
J	raentmer				
	GeneSeq	FR2751658	Chemokines are a family of	Chemokine activities can be	HIV infections
	Accession		related small, secreted proteins	determined using assays known in	
	W50766		involved in biological processes	the art: Methods in Molecular	•
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
	-		including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		***
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

			_	•						_					•	·······		
Preferred Indication Y	Immune and inflammatory	disorders															·	
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9801557				-													
Exemplary Identifier	GeneSeq	Accession	W44397														-	
Therapeutic Protein X	Thymus	expressed	chemokine	(TECK)														

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Human	GeneSeq	WO9801557	Chemokines are a family of	Chemokine activities can be	Immune and inflammatory
chemokine	Accession		related small, secreted proteins	determined using assays known in	disorders
MIP-3alpha	W44398		involved in biological processes	the art: Methods in Molecular	
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
		-	tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		•
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Protein X	Identifier				
Human	GeneSeq	WO9801557	Chemokines are a family of	Chemokine activities can be	Immune and inflammatory
chemokine	Accession		related small, secreted proteins	determined using assays known in	disorders
MIP-3beta	W44399		involved in biological processes	the art: Methods in Molecular	
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
		•	tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Human	GeneSeq	WO9802459	Chemokines are a family of	Chemokine activities can be	Immune disorders, respiratory
monocyte	Accession		related small, secreted proteins	determined using assays known in	disorders, cancer
chemotactic	W42072		involved in biological processes	the art: Methods in Molecular	
proprotein			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
(MCPP)			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
seduence			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

ssay Preferred Indication Y		Immune, and inflammatory	own in disorders, cancer		emokine		d C.A.	•											
Exemplary Activity Assay		Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity		Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of ceyen	acting on a ranging of seven	transmembrane G-protein-	transmembrane G-protein- coupled receptors. Over 40	transmembrane G-protein- coupled receptors. Over 40 human chemokines have been	transmembrane G-protein- coupled receptors. Over 40 human chemokines have been described, which bind to ~17
PCT/Patent Number		US5688927/	US5932703														,	,	,
Exemplary	Identifier	GeneSeq	Accessions	W40811 and	Y24414	_		_											
Therapeutic	Protein X	Macrophage-	derived	chemokine	(MDC)														

Preferred Indication Y	Immune and inflammatory disorders
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and journal enkocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-proteincoupled receptors. Over 40 human chemokines have been described, which bind to ~17
PCT/Patent Number	US5932703
Exemplary Identifier	GeneSeq Accession Y24416
Therapeutic Protein X	Macrophage derived chemokine analogue MDC-eyfy

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Protein X	Identifier				
Macrophage	GeneSeq	US5932703	Chemokines are a family of	Chemokine activities can be	Immune and inflammatory
derived	Accession		related small, secreted proteins	determined using assays known in	disorders
chemokine	Y24413		involved in biological processes	the art: Methods in Molecular	
analogue MDC			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
(n+1)			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	•
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven	٠	
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Macrophage	GeneSeq	US5932703	Chemokines are a family of	Chemokine activities can be	Immune and inflammatory
derived	Accession		related small, secreted proteins	determined using assays known in	disorders
chemokine	Y24415		involved in biological processes	the art: Methods in Molecular	
analogue MDČ-			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	
yl		-	angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
	•	_	human chemokines have been		
			described, which bind to ~17		
		,	receptors thus far identified.		

	-								_										
Preferred Indication Y		Allergic diseases and HIV	infection																
Exemplary Activity Assay		Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ			-							
Biological Activity		Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number		JP11243960																	
Exemplary	laentiner	GeneSeq	Accession	Y43178															
Therapeutic	Frotein A	Human type CC	chemokine	eotaxin 3	protein	sedneuce					-				-				

Preferred Indication Y	Cancer and immune disorders,	particularly HIV infection											-					
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols, Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9946392		-															
Exemplary Identifier	GeneSeq	Accession	Y29893															
Therapeutic Protein X	Human MCP-3	and human	Muc-1 core	epitope (VNT)	fusion protein													

Exemplary Activity Assay Preferred Indication Y	Chemokine activities can be Cancer and immune disorders,	determined using assays known in particularly HIV infection		, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	N								_	
Exem	Chemokine	determined	the art: Mei	Biology, 20	Protocols. 1	Proudfoot,	Power. © E	Totowa, NJ					<u> </u>				
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	
PCT/Patent Number	W09946392																
Exemplary Identifier	GeneSeq	Accession	Y29894												_		
Therapeutic Protein X	Human IP-10	and human	Muc-1 core	epitope (VNT)	fusion protein					•							

Preferred Indication Y	Cancer and immune disorders, particularly HIV infection
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, angiogenesis, and leukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-coupled receptors. Over 40 human chemokines have been described, which bind to ~17 receptors thus far identified.
PCT/Patent Number	WO9946392
Exemplary Identifier	GeneSeq Accession Y29897
Therapeutic Protein X	Human IP-10 and HIV-1 gp120 hypervariable region fusion protein

Preferred Indication Y		e, including	,															
Preferre		Breast disease, including	cancer		<u></u>	• • • • • • • • • • • • • • • • • • • •			_				· · · · · · · · · · · · · · · · · · ·	47.	·			
Exemplary Activity Assay		Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ				•					
Biological Activity		Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	tissue rejection, viral infection, and tumor biology. The	tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by	tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven	tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-	tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-coupled receptors. Over 40	tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-coupled receptors. Over 40 human chemokines have been	tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-coupled receptors. Over 40 human chemokines have been described, which bind to ~17
PCT/Patent Number		WO9936540																
Exemplary	Identifier	GeneSeq	Accessions	Y29092 and	Y29093													
Therapeutic	Protein X	Human	mammary	associated	chemokine	(MACK)	protein Full-	Length and	Mature									

	T
Preferred Indication Y	Inflammation due to stimuli such as heart attacks and stroke, infection, physical trauma, UV or ionizing radiation, burns, frostbite or corrosive chemicals
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and leukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-coupled receptors. Over 40 human chemokines have been described, which bind to ~17
PCT/Patent Number	WO9933990
Exemplary Identifier	GeneSeq Accession Y28290
Therapeutic Protein X	Tim-1 protein

Preferred Indication Y	HIV infection and cancer, particularly leukemia			
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols Edited by A F I	Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ		
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and lenkocyte	trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy.	tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-coupled receptors. Over 40 human chemokines have been	described, which bind to ~17 receptors thus far identified.
PCT/Patent Number	WO9928473 and WO9928472			•
Exemplary Identifier	GeneSeq Accessions Y17280, Y17274, Y17281, and V17275			
Therapeutic Protein X	Human Lkn-1 Full-Length and Mature protein			

	_					_						_						-
Preferred Indication Y	Inhibit or stimulate	angiogenesis, inhibit the	binding of HIV)														
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, Nj										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	WO9920759							•										
Exemplary Identifier	GeneSeq	Accession	Y05818															
Therapeutic Protein X	N-terminal	modified	chemokine met-	hSDF-1 alpha		.,												

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
N-terminal	GeneSeq	WO9920759	Chemokines are a family of	Chemokine activities can be	Inhibit or stimulate
modified	Accession		related small, secreted proteins	determined using assays known in	angiogenesis, inhibit the
chemokine met-	Y05819		involved in biological processes	the art: Methods in Molecular	binding of HIV,
hSDF-1 beta			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	antiinflammatory;
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	immunosuppressant
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
		-	family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
N-ferminal	GeneSen	WO9920759	Chemokines are a family of	Chemokine activities can be	Inhihit or etimulata
	hacarra p	10101101	Circulos are a family of	CHAINMIN ACHAINS CAIL DO	minute of Summary
modified	Accession		related small, secreted proteins	determined using assays known in	angiogenesis, inhibit the
chemokine	Y05820		involved in biological processes	the art: Methods in Molecular	binding of HIV,
GroHEK/hSDF-			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	antiinflammatory;
1alpha			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	immunosuppressant
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	-
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
•			including inflammation, allergy,		
			tissue rejection, viral infection,		
_			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Preferred Indication Y	Inhibit or stimulate angiogenesis, inhibit the binding of HIV, antiinflammatory; immunosuppressant
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and leukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-proteincoupled receptors. Over 40 human chemokines have been described, which bind to ~17
PCT/Patent Number	W09920759
Exemplary Identifier	GeneSeq Accession Y05821
Therapeutic Protein X	N-terminal modified chemokine GroHEK/hSDF- 1beta.

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I herapeutic Protein X	Exemplary Identifier	PCI/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Chemokine	GeneSeq	WO9912968	Chemokines are a family of	Chemokine activities can be	Increase or enhance an
Eotaxin.	Accession		related small, secreted proteins	determined using assays known in	inflammatory response, an
	Y14230		involved in biological processes	the art: Methods in Molecular	immune response or
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	haematopoietic cell-associated
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	activity; treat a vascular
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	indication; Cancer; enhance
			family are involved in a similarly	Power. © Humana Press Inc.,	wound healing, to prevent or
			diverse range of pathologies	Totowa, NJ	treat asthma, organ transplant
			including inflammation, allergy,		rejection, rheumatoid arthritis
			tissue rejection, viral infection,		or allergy
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Assay Preferred Indication Y	e Immune disorders, Vascular disorders, Wound healing, cancer, prevent organ transplant rejection, Increase or enhance an inflammatory response, c.,
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and leukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-proteincoupled receptors. Over 40 human chemokines have been described, which bind to ~17
PCT/Patent Number	WO9912968
Exemplary Identifier	GeneSeq Accession Y14225
Therapeutic Protein X	Chemokíne hMCP1a

PCT/Patent Number Biological Activity Exemplary Activity Assay
Chemokines are a family of Chemokine activities can be
related small, secreted proteins determined using assays known in
involved in biological processes the art: Methods in Molecular
ranging from hematopoiesis, Biology, 2000, vol. 138: Chemokine
angiogenesis, and leukocyte Protocols. Edited by: A.E.I.
trafficking. Members of this Proudfoot, T.N.C. Wells, and C.A.
family are involved in a similarly Power. © Humana Press Inc.,
diverse range of pathologies Totowa, NJ
including inflammation, allergy,
tissue rejection, viral infection,
and tumor biology. The
chemokines exert their effects by
acting on a family of seven
transmembrane G-protein-
coupled receptors. Over 40
human chemokines have been
described, which bind to ~17
receptors thus far identified.

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Chemokine	GeneSed	WO9912968	Chemokines are a family of	Chemokine activities can be	Immine disorders Vascular
hSDF1b	Accession		related small, secreted proteins	defermined using assays known in	disorders Wound healing
	V14228		involved in high-aireal processes	the art. Mathode in Molecular	Concer pregiont organ
	07747		involved in blondgical processes	LIE AIL. INTENIOUS III INTOICEMIAI	cancer, prevent organ
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	transplant rejection, Increase
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	or enhance an inflammatory
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	response
			family are involved in a similarly	Power. © Humana Press Inc.,	1
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
		٩	and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.	!	

-	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
	Identifier				
Chemokine hIL-	GeneSeq	WO9912968	Chemokines are a family of	Chemokine activities can be	Immune disorders, Vascular
	Accession		related small, secreted proteins	determined using assays known in	disorders, Wound healing,
	Y14229		involved in biological processes	the art: Methods in Molecular	cancer, prevent organ
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	transplant rejection, Increase
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	or enhance an inflammatory
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	response
			family are involved in a similarly	Power. © Humana Press Inc.,	4
			diverse range of pathologies	Totowa, NJ; and Holmes et al	- / / /
			including inflammation, allergy,	(1991)Science 253, 1278-80.	
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Preferred Indication Y	Immune disorders, Vascular disorders, Wound healing, cancer, prevent organ transplant rejection, Increase or enhance an inflammatory response
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and leukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-proteincoupled receptors. Over 40 human chemokines have been described, which bind to ~17 receptors thus far identified.
PCT/Patent Number	W09912968
Exemplary Identifier	GeneSeq Accession Y14222
Therapeutic Protein X	Chemokine hMCP1

Preferred Indication Y	Immune disorders, Vascular disorders, Wound healing, cancer, prevent organ transplant rejection, Increase or enhance an inflammatory response
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and in similarly diverse range of pathologies family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-protein-coupled receptors. Over 40 human chemokines have been described, which bind to ~17 receptors thus far identified.
PCT/Patent Number	WO9912968
Exemplary Identifier	GeneSeq Accession Y14223
Therapeutic Protein X	Chemokine hMCP2

	•
Preferred Indication Y	Immune disorders, Vascular disorders, Wound healing, cancer, prevent organ transplant rejection, Increase or enhance an inflammatory response
Exemplary Activity Assay	Chemokine activities can be determined using assays known in the art: Methods in Molecular Biology, 2000, vol. 138: Chemokine Protocols. Edited by: A.E.I. Proudfoot, T.N.C. Wells, and C.A. Power. © Humana Press Inc., Totowa, NJ
Biological Activity	Chemokines are a family of related small, secreted proteins involved in biological processes ranging from hematopoiesis, and leukocyte trafficking. Members of this family are involved in a similarly diverse range of pathologies including inflammation, allergy, tissue rejection, viral infection, and tumor biology. The chemokines exert their effects by acting on a family of seven transmembrane G-proteincoupled receptors. Over 40 human chemokines have been described, which bind to ~17 receptors thus far identified.
PCT/Patent Number	W09912968
Exemplary Identifier	GeneSeq Accession Y14224
Therapeutic Protein X	Chemokine hMCP3

Exemplary PCT/Patent Number	Vumber	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
EP905240	Chemol	Chemokines are a family of	Chemokine activities can be	Inflammatory immine and
	related	related small, secreted proteins	determined using assays known in	infections diseases: mulmonary
	involve	involved in biological processes	the art: Methods in Molecular	diseases and skin disorders;
ranging	ranging	ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	tumours, and angiogenesis-
angiog	angiog	angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	and haematopoiesis-related
traffic	traffic	trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	diseases
family a	family a	family are involved in a similarly	Power. © Humana Press Inc.,	
diverse	diverse	diverse range of pathologies	Totowa, NJ	
includin	includin	including inflammation, allergy,		
tissue re	tissue re	tissue rejection, viral infection,		
and tun	and tun	and tumor biology. The		
chemoki	chemoki	chemokines exert their effects by		
acting or	acting or	acting on a family of seven		
transme	transme	transmembrane G-protein-		
coupled	coupled	coupled receptors. Over 40		
human	human (human chemokines have been		
describ	describ	described, which bind to ~17		
receptor	receptor	receptors thus far identified.		

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Preferred Indication Y	Inflammatory, immune and	infectious diseases; pulmonary	diseases and skin disorders;	tumours, and angiogenesis-	and haematopoiesis-related	diseases	•										~-	
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	EP906954										-7-							
Exemplary Identifier	GeneSeq	Accession	Y07233															
Therapeutic Protein X	Wild type	monocyte	chemotactic	protein 2						-								

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
rrotein A	Identiner				
Truncated	GeneSeq	EP906954	Chemokines are a family of	Chemokine activities can be	Inflammatory, immune and
monocyte	Accession		related small, secreted proteins	determined using assays known in	infectious diseases; pulmonary
chemotactic	Y07234		involved in biological processes	the art: Methods in Molecular	diseases and skin disorders;
protein 2 (6-76)			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	tumours, and angiogenesis-
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	and haematopoiesis-related
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	diseases
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
	•		human chemokines have been		-
			described, which bind to ~17		
			receptors thus far identified.		

Preferred Indication Y	Inflammatory, immune and	infectious diseases; pulmonary	diseases and skin disorders;	tumours, and angiogenesis-	and haematopoiesis-related	diseases												
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ	•					•				
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	EP905241; EP906954						_											,
Exemplary Identifier	GeneSeq	Accessions	Y07236 and	Y07232														
Therapeutic Protein X	Truncated	RANTES	protein (3-68)				·											

Preferred Indication Y		Inflammatory, immune and	infectious diseases; pulmonary	diseases and skin disorders;	tumours, and angiogenesis-	and haematopoiesis-related	diseases												
Exemplary Activity Assay		Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity		Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number		EP905241					•												
Exemplary	Identifier	GeneSeq	Accession	Y07237		-													
Therapeutic	Protein X	Wild type	monocyte	chemotactic	protein 2						,								

PCT/US01/12013

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
T TOTOTT	TACHETICE				
Truncated	GeneSeq	EP905241	Chemokines are a family of	Chemokine activities can be	Inflammatory, immune and
monocyte	Accession		related small, secreted proteins	determined using assays known in	infectious diseases; pulmonary
chemotactic	Y07238		involved in biological processes	the art: Methods in Molecular	diseases and skin disorders;
protein 2 (6-76)			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	tumours, and angiogenesis-
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	and haematopoiesis-related
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	diseases
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and turnor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
-			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Frotein X	Identifier				
A partial	GeneSeq	EP897980	Chemokines are a family of	Chemokine activities can be	Soluble CXCR4B receptor
CXCR4B	Accession		related small, secreted proteins	determined using assays known in	polypeptides may be useful for
protein	W97363		involved in biological processes	the art: Methods in Molecular	inhibiting chemokine activities
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	and viral infection.
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
		•	diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
			chemokines exert their effects by		
			acting on a family of seven		
		•	transmembrane G-protein-		
			coupled receptors. Over 40		
•			human chemokines have been		
			described, which bind to ~17		•
			receptors thus far identified.		



Therapeutic	Exemplary	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Protein X	Identifier				
Interferon	GeneSeq	US5871723	Chemokines are a family of	Chemokine activities can be	Angiogenesis, Cancer,
gamma-	Accession		related small, secreted proteins	determined using assays known in	Inflammatory and Immune
inducible	60L96M		involved in biological processes	the art: Methods in Molecular	disorders, Cardio-Vascular
protein (IP-10)			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	disorders, Musco-skeletal
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	disorders
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
W -			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
-			and tumor biology. The		
			chemokines exert their effects by		
•			acting on a family of seven		
-			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
A monokine	GeneSeq	US5871723	Chemokines are a family of	Chemokine activities can be	Angiogenesis, Cancer,
induced by	Accession		related small, secreted proteins	determined using assays known in	Inflammatory and Immune
gamma-	W96710		involved in biological processes	the art: Methods in Molecular	disorders, Cardio-Vascular
interferon			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	disorders, Musco-skeletal
(MIG)			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	disorders
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		
~			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y	
Interleukin-8	GeneSeq	US5871723	Chemokines are a family of	Chemokine activities can be	Angiogenesis, Cancer,	<u> </u>
(IL-8) protein.	Accession		related small, secreted proteins	determined using assays known in	Inflammatory and Immune	٠
****	W96711		involved in biological processes	the art: Methods in Molecular	disorders, Cardio-Vascular	
			ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	disorders, Musco-skeletal	
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	disorders	
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.		
-			family are involved in a similarly	Power. © Humana Press Inc.,		
			diverse range of pathologies	Totowa, NJ; and Holmes et al		
			including inflammation, allergy,	(1991)Science 253, 1278-80.		_
			tissue rejection, viral infection,			
			and tumor biology. The			
			chemokines exert their effects by			
			acting on a family of seven			
			transmembrane G-protein-			
			coupled receptors. Over 40			
			human chemokines have been			
			described, which bind to ~17			
•	•		receptors thus far identified.			

Preferred Indication Y	Angiogenesis, Cancer,	Inflammatory and Immune	disorders, Cardio-Vascular	disorders, Musco-skeletal	disorders				—									
Exemplary Activity Assay	Chemokine activities can be	determined using assays known in	the art: Methods in Molecular	Biology, 2000, vol. 138: Chemokine	Protocols. Edited by: A.E.I.	Proudfoot, T.N.C. Wells, and C.A.	Power. © Humana Press Inc.,	Totowa, NJ										
Biological Activity	Chemokines are a family of	related small, secreted proteins	involved in biological processes	ranging from hematopoiesis,	angiogenesis, and leukocyte	trafficking. Members of this	family are involved in a similarly	diverse range of pathologies	including inflammation, allergy,	tissue rejection, viral infection,	and tumor biology. The	chemokines exert their effects by	acting on a family of seven	transmembrane G-protein-	coupled receptors. Over 40	human chemokines have been	described, which bind to ~17	receptors thus far identified.
PCT/Patent Number	US5871723																	
Exemplary Identifier	GeneSeq	Accession	W96712															
Therapeutic Protein X	Epithelial	neutrophil	activating	protein-78	(ENA-78)						•			-				

Therapeutic Protein X	Exemplary Identifier	PCT/Patent Number	Biological Activity	Exemplary Activity Assay	Preferred Indication Y
Growth related	GeneSeq	US5871723	Chemokines are a family of	Chemokine activities can be	Angiogenesis, Cancer,
oncogene-alpha	Accession		related small, secreted proteins	determined using assays known in	Inflammatory and Immune
(GRO-alpha).	. W96713		involved in biological processes	the art: Methods in Molecular	disorders, Cardio-Vascular
	-		ranging from hematopoiesis,	Biology, 2000, vol. 138: Chemokine	disorders, Musco-skeletal
			angiogenesis, and leukocyte	Protocols. Edited by: A.E.I.	disorders
			trafficking. Members of this	Proudfoot, T.N.C. Wells, and C.A.	
			family are involved in a similarly	Power. © Humana Press Inc.,	
			diverse range of pathologies	Totowa, NJ	
			including inflammation, allergy,		
			tissue rejection, viral infection,		
			and tumor biology. The		•
			chemokines exert their effects by		
			acting on a family of seven		
			transmembrane G-protein-		
			coupled receptors. Over 40		
			human chemokines have been		
			described, which bind to ~17		
			receptors thus far identified.		